



# SPAWAR

## *Life-cycle Sustainment / Cost Reduction*

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Provided for:  
**Industry Presentation**

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# Information Dominance Vision

## ▼ Navy's Information Transformation

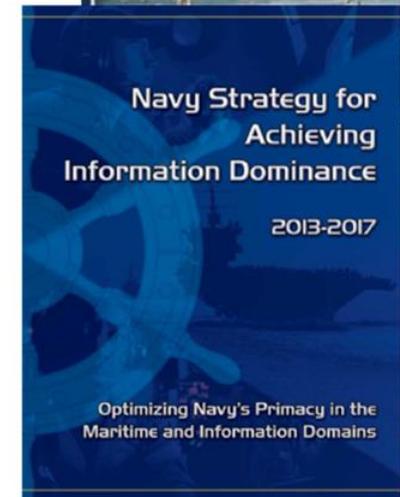
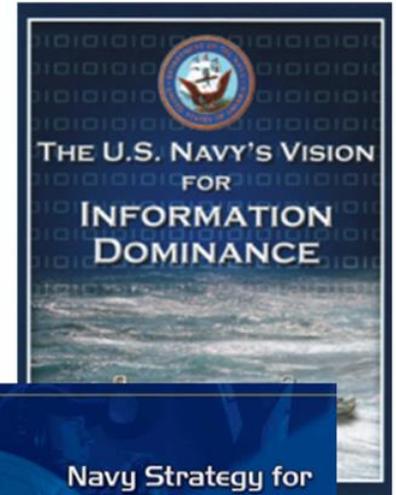
- Shift from information **IN** warfare to information **AS** warfare
- Organizations - N2/6, Fleet Cyber Command / 10th Fleet
- Personnel - Information Dominance Corps

## ▼ Fundamental Capabilities

- Assured Command and Control
- Battlespace Awareness
- Integrated Fires

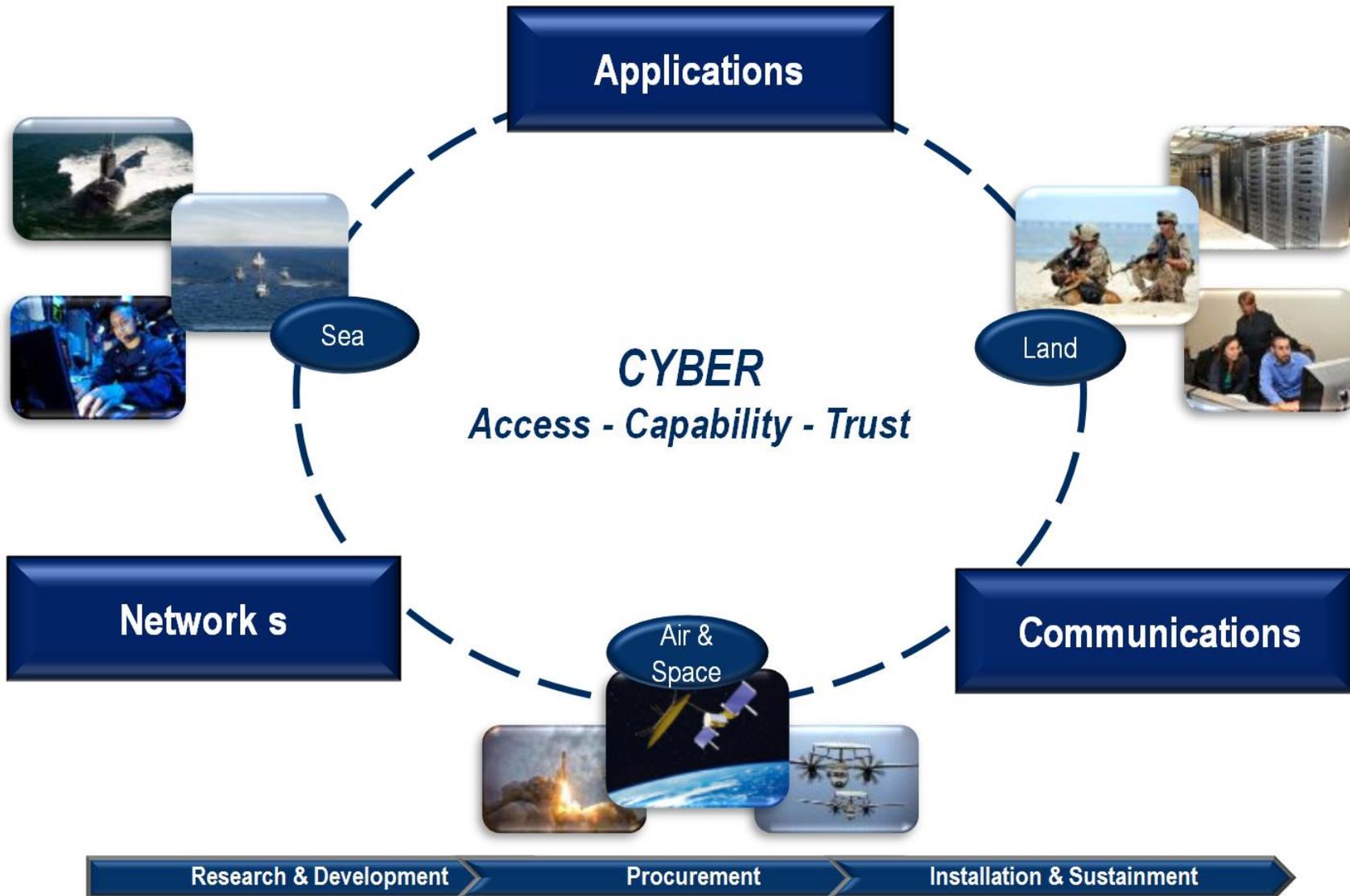
## ▼ Major Goals

- Strong and Secure Navy Command and Control
- Persistent, Predictive Battlespace Awareness
- Integrated Combat Information
- Integrated Kinetic and Non-kinetic Fires
- Information Dominance as a Warfighting Discipline



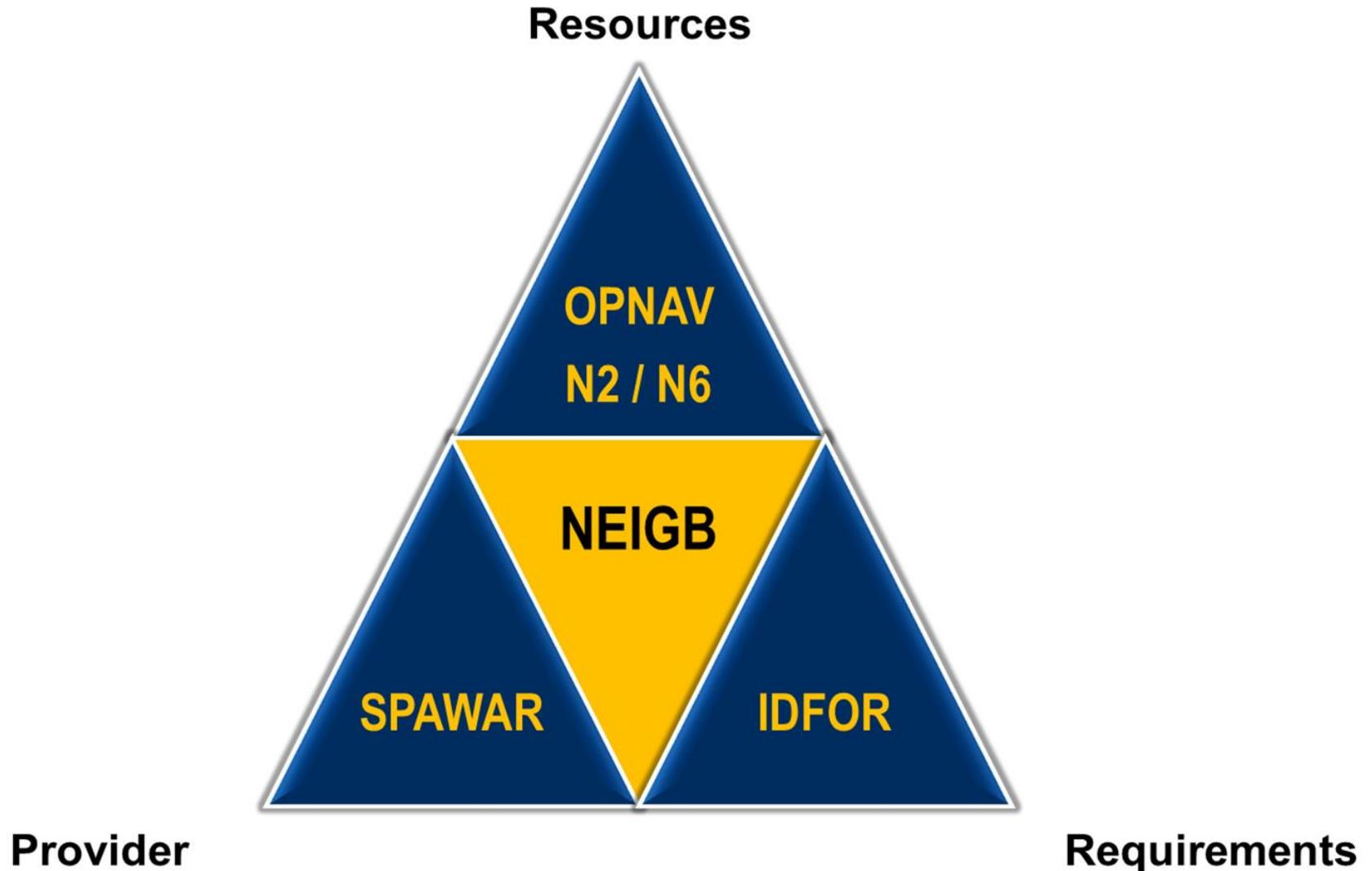
***Information Dominance is the operational advantage gained from fully integrating the Navy's information functions, capabilities and resources to optimize decision making and maximize warfighting effects.***

# Supporting U.S. Navy Information Dominance





# Navy Enterprise Information Governance Board

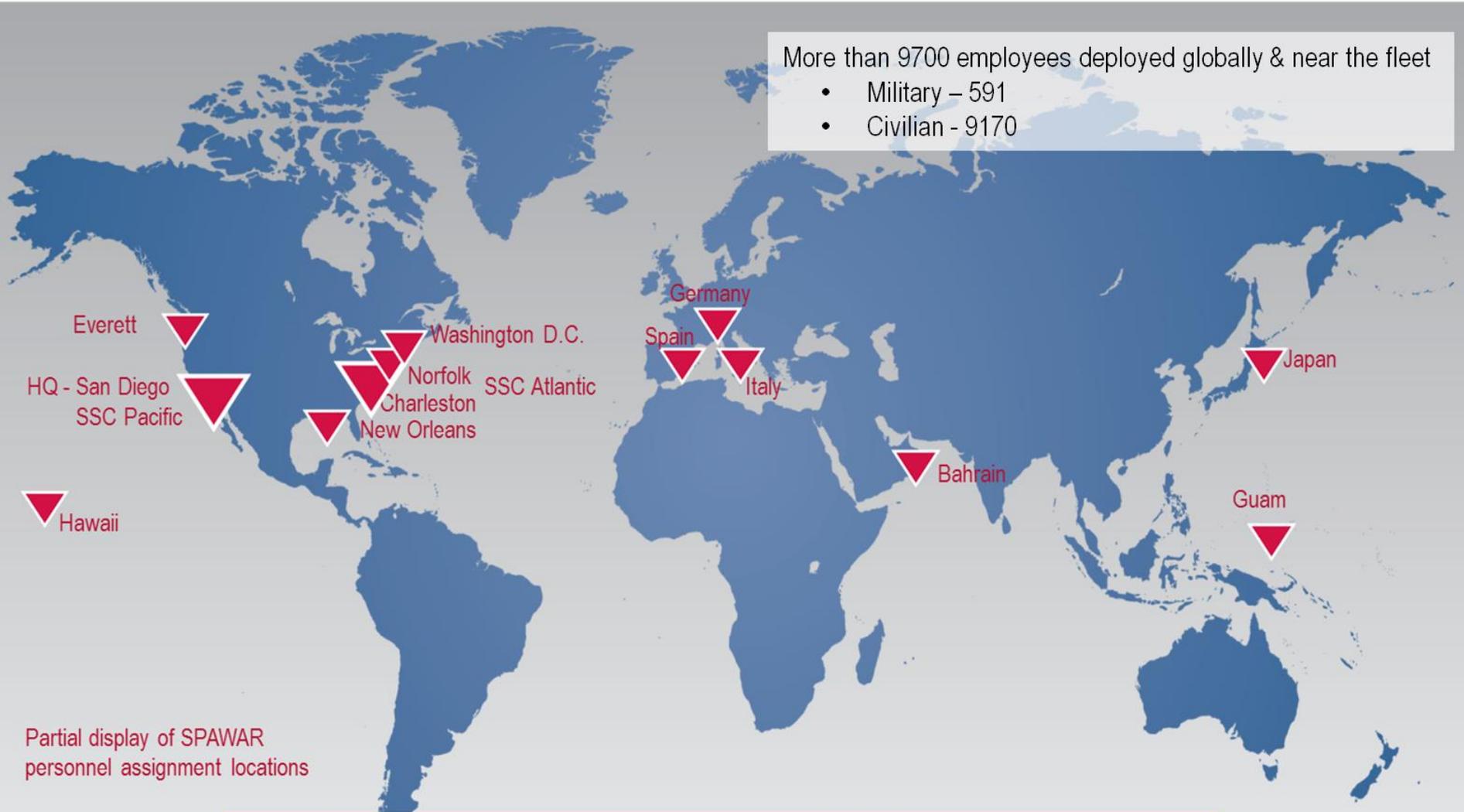




# SPAWAR: Global Presence

More than 9700 employees deployed globally & near the fleet

- Military – 591
- Civilian - 9170

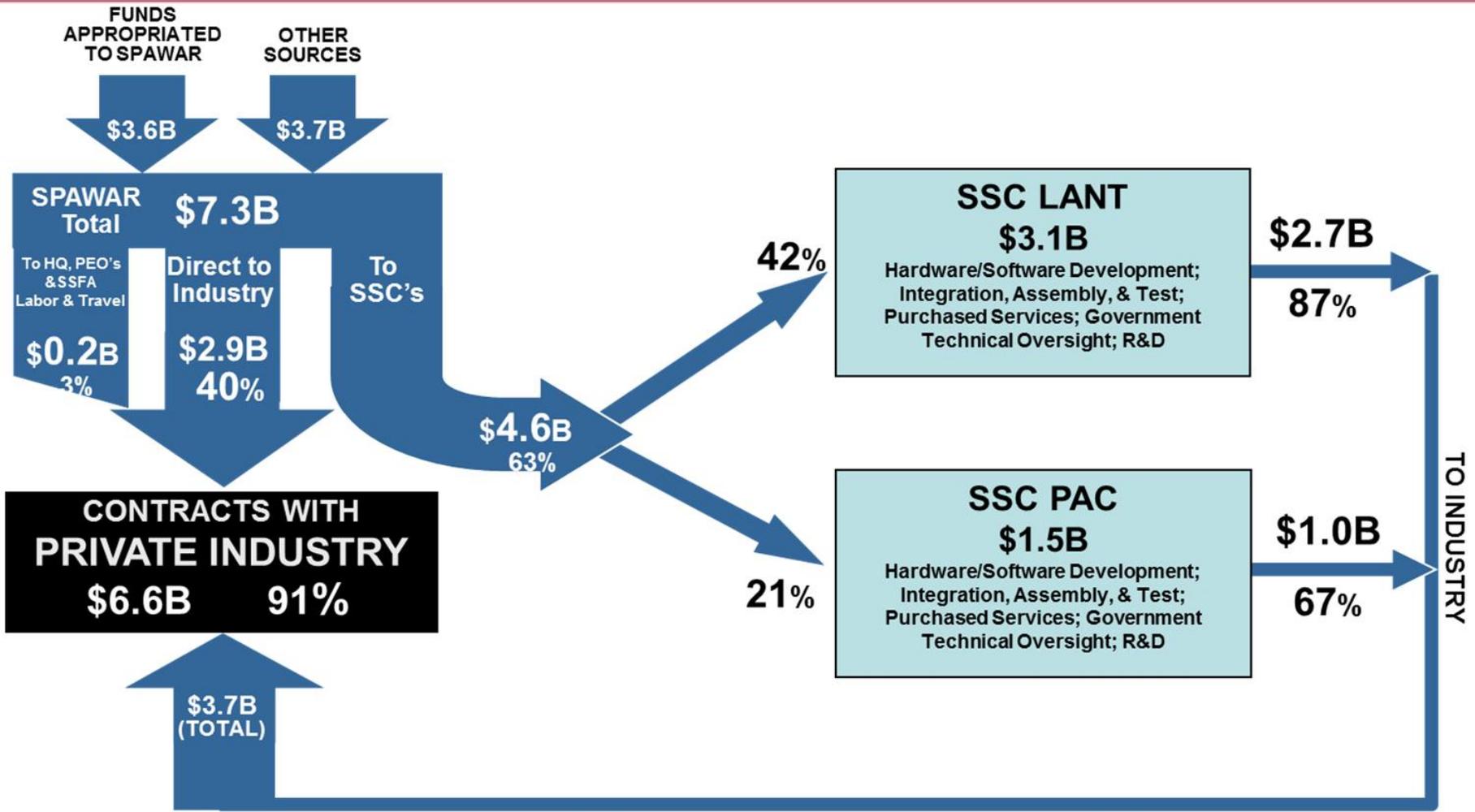


Partial display of SPAWAR personnel assignment locations

***The sun never sets on a SPAWAR detachment***



# FY13 MACRO FUNDS FLOW



Sources: N-ERP

- NOTES:
- SSC LANT includes Norfolk and NOLA; SSC PAC includes PAC General Fund (formerly NCTSI)
  - Delta between SSC inflow and Outflow to industry is primarily associated w/ NWCF Labor Costs
  - Outflow percentages total 106% representing that SPAWAR obligated more than its new funds received in FY13, this slide does not account for prior year(s) carry-in/over with regards to Inflows; however, these funds are account for in Outflow



# Meeting Fleet Requirements *with Lifecycle Sustainment and Savings*

## ▼ System of Systems (SoS) approach to ID / Cyber

### Three Builds:

- Networks
- Applications
- Communications

## ▼ Standard Baselines

- Locked into every install
- Built in Cybersecurity
- Programmed Tech refresh

## ▼ Align budgets with SoS builds

## ▼ Align sustainment and training to SoS builds

## ▼ Cyber Chief Engineer

- Establish cyber standards and configurations
- Single source for cyber technical products





# Evolving SPAWAR

## Fleet Readiness and Sustainment Focus

	2010	Today	To Be
Current Fleet Readiness	<ul style="list-style-type: none"> <li>Multiple Fleet points of entry</li> <li>Inconsistent approach toward Readiness</li> <li>Inconsistent Training, metrics, and Root Cause Analysis</li> </ul>	<ul style="list-style-type: none"> <li>SPAWAR Fleet Readiness Directorate (FRD) provides Fleet "Single Point of Entry"</li> <li>Tailored Training / Grooms augment Fleet Readiness Training Plan (FRTP)</li> <li>"Pulsed" Readiness focus on deployed units</li> </ul>	<ul style="list-style-type: none"> <li>Proactive and metric driven sustainment</li> <li>Tailored Training / Groom Events integrated into FRTP</li> </ul>
Sustainment of In-Service C4I Systems	<ul style="list-style-type: none"> <li>Limited advocacy for sustainment</li> <li>In Service Engineering Agents (ISEA) aligned to systems</li> <li>Fleet Support Teams Established</li> </ul>	<ul style="list-style-type: none"> <li>FRD advocacy for sustainment to Surface Warfare Enterprise/ Naval Aviation Enterprise / OPNAV</li> <li>Transitioning to Capability Based-ISEAs and Fleet Support Teams</li> </ul>	<ul style="list-style-type: none"> <li>Capabilities-based ISSAs and Fleet Support Teams drive sustainment</li> <li>Budget line items consolidated by capability</li> </ul>

**SPAWAR FRD Provides Flag / SES Engagement with the Fleet**



# Evolving SPAWAR

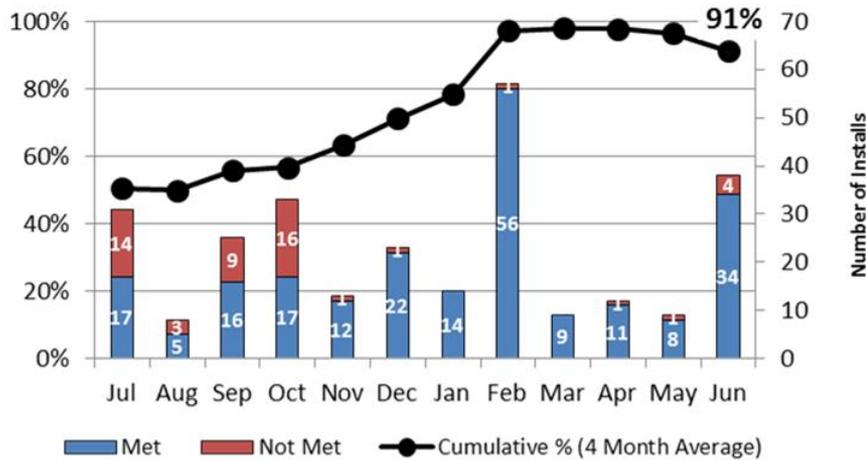
## Improved Modernization - Installations

	2010	Today	To Be
Planning & Design	<ul style="list-style-type: none"> <li>Late ship checks</li> <li>On time Ship Installation Drawings (SID): &lt; 60%</li> </ul>	<ul style="list-style-type: none"> <li>Improved ship checks</li> <li>On time SIDs: 89%</li> <li>Flag handoff at A-7</li> </ul>	<ul style="list-style-type: none"> <li>Coordinate all programs into a single, on-time ship check</li> <li>On time SIDs</li> </ul>
Contracts	<ul style="list-style-type: none"> <li>Late Alteration Installation Team (AIT) contract awards</li> </ul>	<ul style="list-style-type: none"> <li>Improved AIT contract award</li> </ul>	<ul style="list-style-type: none"> <li>On time contract award</li> <li>Improved contract strategies</li> </ul>
Execution / Test	<ul style="list-style-type: none"> <li>Not integrated in basic package at RMC</li> <li>Frequently missed Production Completion Date (PCD)</li> <li>Poor coordination of SOVTs</li> </ul>	<ul style="list-style-type: none"> <li>Improved integration in basic package</li> <li>Improved PCD performance</li> <li>Improved integration of SOVTs</li> <li>Added test officers to coordinate SOVTs</li> </ul>	<ul style="list-style-type: none"> <li>Fully integrated in basic package</li> <li>Assigned FRD reps at RMCs</li> <li>FRD test officers to execute integrated SOVTs</li> <li>SOT on CANES ships</li> </ul>
Organization	<ul style="list-style-type: none"> <li>Distributed accountability</li> <li>Insufficient oversight</li> </ul>	<ul style="list-style-type: none"> <li>Single SPAWAR POC</li> <li>Increased waterfront presence</li> </ul>	<ul style="list-style-type: none"> <li>Single POC aligned with Installation Maintenance Office (IMO)</li> <li>Fully manned for workload</li> </ul>

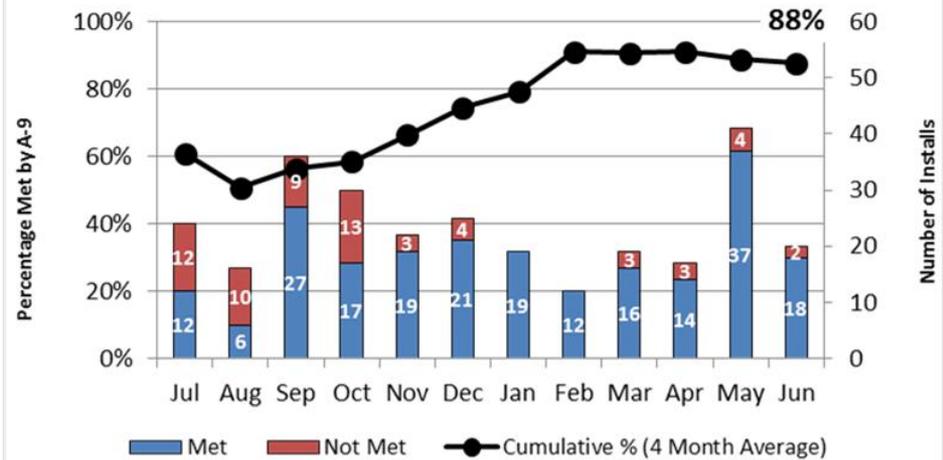


# Improving Naval Modernization (NMP) Process Milestones

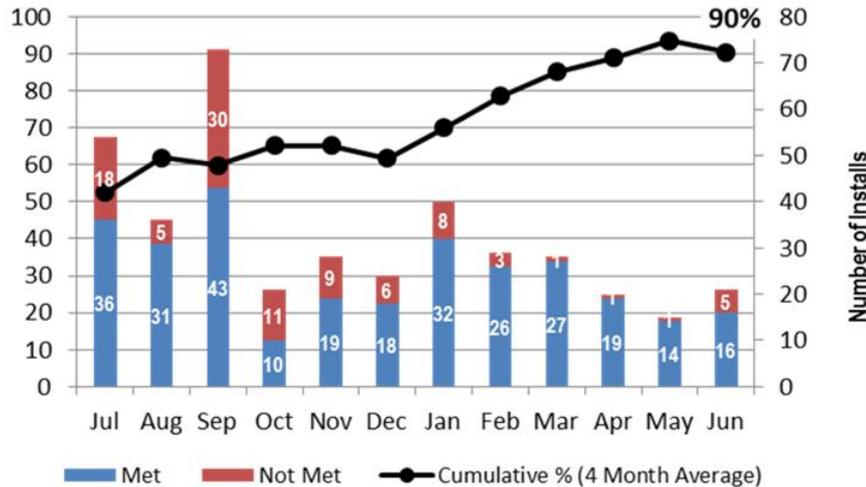
### DSA Funding and Tasking by A-12



### Ship Check by A-9



### SIDs by A-6

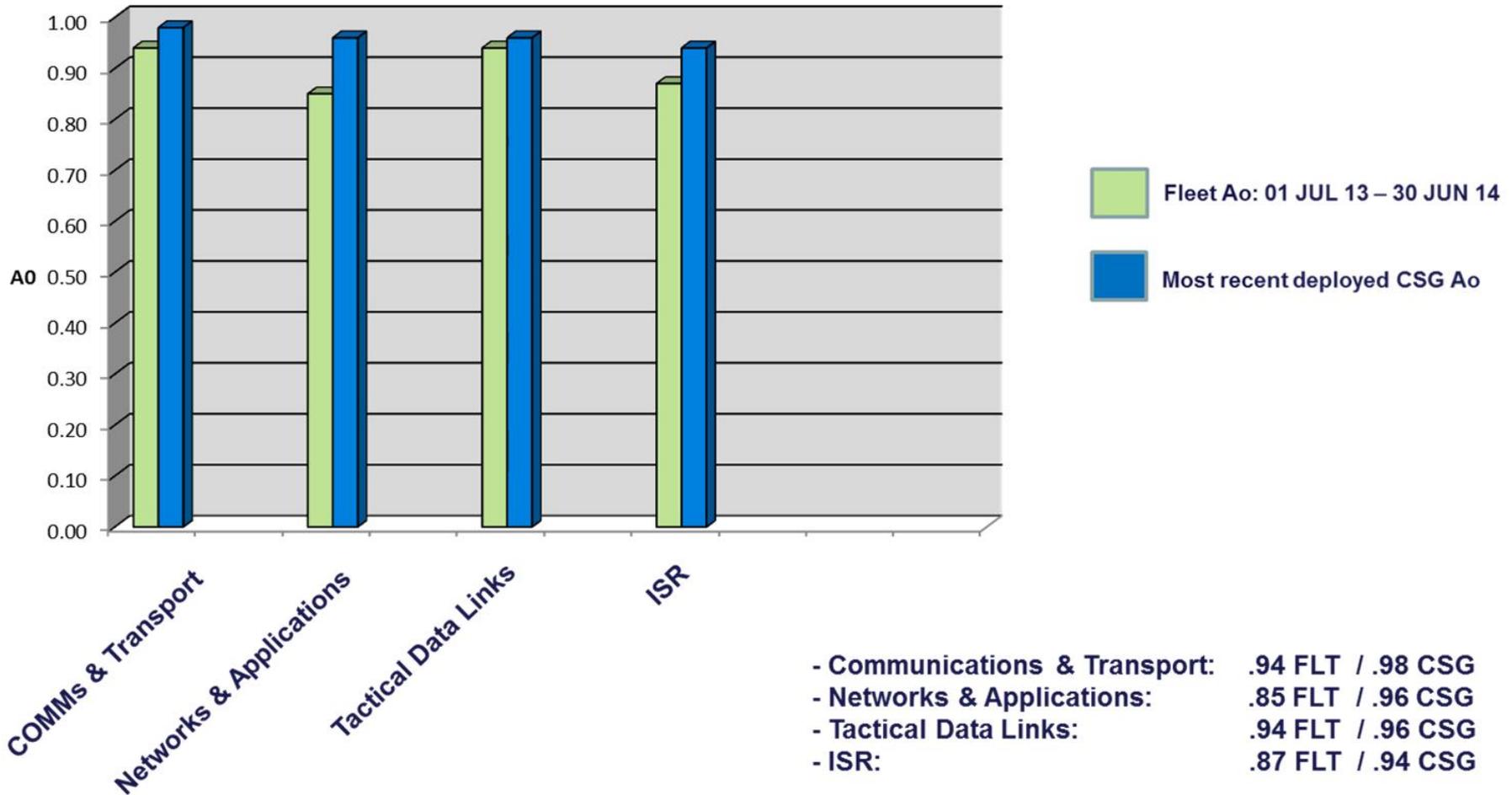


▼ Metrics show a clear correlation between earlier funding and on-time Ship Check & SID IAW NMP milestones

▼ Dedicated effort by FRD Design Management Team has dramatically improved SPAWAR performance



# Overall vs. Deployed System Availability



**“Pulsed” Readiness Focus Improved CY14 Deployed Readiness**

# C4I Capability Builds – DDG Example

## DDG Modernization FY14-15

Network and Applications		FY 14-15
Program	Variant/Version	
CANES	AN/USQ-208(V)1 CANES HW v1	
CANES	AN/USQ-208(V)1 CANES SW v1	
ADNS	AN/USQ-144K(V)2 ADNS INC III SP1/ SP2/ SP3	
GCCS-M	V4.1	
NTCSS	NTCSS Patriot v800-02.03.30	
NAVMACS	AN/SYQ-26(V)7 NAVMACS II Tech Refresh	
MFOM	MFOM Casualty Report Toolbox v2.0.1/ v2.1	
MFOM	MFOM Maintenance Toolbox v2.0.1/ v2.1	
BASELINE APPS	CANES Application Package	

Common Radio Room		FY 14-15
Program	Variant/Version	
NMT	AN/WSC-9(V)2 NMT (Q/X/Ka)	
GBS	AN/USR-10A(V)7	
ADNS	AN/USQ-144K(V)2 ADNS INC III SP1/ SP3	
CRYPTO	KIV-7M COMSEC Serial Crypto Replacement Phase I	
CRYPTO	KIV-7M COMSEC Serial Crypto Replacement Phase II	
UHF SATCOM	MD-1324A w/ IW	
DMR	DMR 6.4.x	
LINK 16	AN/URC-107 4.11 / AN/URC-141 BC 5	
BFTN	AN/USQ-195(V)1	
ISSP	EKMS Phase 5	
ISSP	KMI Spiral 2	



Warfare Support Systems		FY 14-15
Program	Variant/Version	
C2P	CDLMS 3.8	
NAVSTAR GPS	NAVSSI 4.2.0 or 4.2.1	
NAVSTAR GPS	NAVSSI 4.2.0.55R2 or 4.2.0.56 or 4.2.1.97R3	
NAVSTAR GPS	SEA NAVWAR ADAP	
JTT-M	AN/USQ-151 Block 6	

Signals Exploitation		FY 14-15
Program	Variant/Version	
SSEE Inc F	AN/SSQ-130(V) SSEE Inc F	

**62 ship DDG class has 42 different configurations of only 8 major C4I systems (Command, Control, Communications, Computers and Intelligence)**

# System Consolidation Reduces Variance

## Consolidated Afloat Networks & Enterprise Services (CANES)

ISNS

SCI Networks

CENTRIXS-M

VIXS

Networks



## Navy Multiband Terminal (NMT)



JSR-10(V)  
GBS  
(Ka Band)



WSC-6(V) SHF  
(X/Ka, C Band)



USC-38 NESP  
(Q Band)

MILSATCOM



GBS Navy Multiband Terminal (NMT)

## Digital Modular Radio (DMR)



UHF  
SATCOM



HF



LOS



BISOG



DMR

Digital Modular Radio

## Commercial Broadband Satellite Program (CBSP)



WSC-8  
(C Band)



Inmarsat  
(L Band)

Commercial  
SATCOM



Commercial Broadband Satellite Program (CBSP)



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